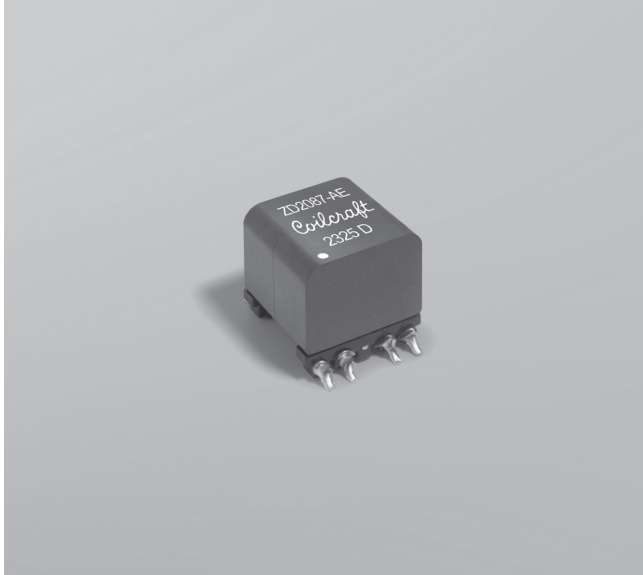


# Flyback Transformer ZD2087-AE



- Developed for use with the STMicroelectronics A/L6983I iso-buck converter
- Optimized for a 24 Vin solution with the evaluation board STEVAL-L6983IV1.
- 1500 Vrms, one minute isolation (hipot) between primary and secondary.
- AEC-Q200 qualified

**Core material** Ferrite

**Environment** RoHS compliant, halogen free

**Terminations** Tin-silver-copper over tin over nickel over phos bronze

**Weight** 6.99 g

**Ambient temperature** -40°C to +125°C

**Maximum part temperature** +165°C (Ambient + temp rise)

**Storage temperature** Component: -40°C to +125°C

Tape and reel packaging: -40°C to +80°C

**Resistance to soldering heat** Max three 40 second reflows at +260°C, parts cooled to room temperature between cycles

**Packaging** 150 per 13" reel Plastic tape: 44 mm wide, 0.5 mm thick, 28 mm pocket spacing, 14.6 mm pocket depth

**Moisture Sensitivity Level (MSL)** 1 (unlimited floor life at <30°C / 85% relative humidity)

Part number <sup>1</sup>	Inductance at 0 A <sup>2</sup> ±10% (μH)	DCR max (Ohms)		Leakage inductance <sup>3</sup> max (μH)	Turns ratio pri : sec	Isolation <sup>4</sup> (Vrms)	Isat <sup>5</sup> (A)	Output
		pri	sec					
ZD2087-AED	13.5	0.020	0.293	0.15	1 : 2.555	1500	8.0	30 V, 0.33 A

- Packaging:** D = 13" machine-ready reel. EIA-481 embossed plastic tape (150 parts per full reel). Quantities less than full reel available: in tape (not machine ready) or with leader and trailer (\$25 charge).
  - Inductance is for the primary, measured at 500 kHz, 0.1 Vrms, 0 Adc.
  - Leakage inductance is for the primary with the secondary windings shorted.
  - 1500 Vrms, one minute isolation (hipot) between primary and secondary.
  - DC current that causes the primary inductance to drop 30% from its value without current.
  - Electrical specifications at 25°C.
- Refer to Doc 362 "Soldering Surface Mount Components" before soldering.

## L vs Current

